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L1 11376 S GLUCANASE
L2 62 S L1 AND SUCCINOGENES
L3 41 S L1 AND (FIBROBACTER (2N) SUCCINOGENES)
L4 17 DUP REM L3 (24 DUPLICATES REMOVED)

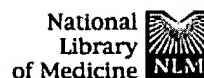
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L5 4 S L4 AND (MUTANT OR TRUNC?)
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PubMed
Services☐ 1: Tsai LC, Shyur LF, Lin SS, Yuan HS.

Related Articles

Crystallization and preliminary X-ray diffraction analysis of the 1,3-1,4-beta-D-glucanase from *Fibrobacter succinogenes*.
Acta Crystallogr D Biol Crystallogr. 2001 Sep;57(Pt 9):1303-6.
PMID: 11526326 [PubMed - indexed for MEDLINE]

☐ 2: Chen JL, Tsai LC, Wen TN, Tang JB, Yuan HS, Shyur LF.

Related Articles

Directed mutagenesis of a specific active site residues on *Fibrobacter succinogenes* 1,3-1,4-beta-D-glucanase significantly affects catalysis and enzyme structural stability.
J Biol Chem. 2001 May 25;276(21):17895-901.
PMID: 11279139 [PubMed - indexed for MEDLINE]

Related
Resources☐ 3: Iyo AH, Forsberg CW.

Related Articles

A cold-active glucanase from the ruminal bacterium *Fibrobacter succinogenes* S85.
Appl Environ Microbiol. 1999 Mar;65(3):995-8.
PMID: 10049853 [PubMed - indexed for MEDLINE]

☐ 4: Ay J, Hahn M, Decanniere K, Piotukh K, Borriss R, Heinemann U.

Related Articles, Protein, Structure

Crystal structures and properties of de novo circularly permuted 1,3-1,4-beta-glucanases.
Proteins. 1998 Feb 1;30(2):155-67.
PMID: 9489923 [PubMed - indexed for MEDLINE]

☐ 5: Schimming S, Schwarz WH, Staudenbauer WL.

Related Articles, Nucleotide, Protein

Structure of the *Clostridium thermocellum* gene *licB* and the encoded beta-1,3-1,4-glucanase. A catalytic region homologous to *Bacillus licheniformis* joined to the reiterated domain of clostridial cellulases.
Eur J Biochem. 1992 Feb 15;204(1):13-9.
PMID: 1740123 [PubMed - indexed for MEDLINE]

☐ 6: Teather RM, Erfle JD.

Related Articles, Nucleotide, Protein

DNA sequence of a *Fibrobacter succinogenes* mixed-linkage beta-glucanase (1,3-1,4-beta-D-glucan 4-glucanohydrolase) gene.
J Bacteriol. 1990 Jul;172(7):3837-41.
PMID: 2193918 [PubMed - indexed for MEDLINE]

☐ 7: Irvin JE, Teather RM.

Related Articles

Cloning and expression of a *Bacteroides succinogenes* mixed-linkage

beta-glucanase (1,3-1,4-beta-D-glucan 4-glucanohydrolase) gene in Escherichia coli.
Appl Environ Microbiol. 1988 Nov;54(11):2672-6.
PMID: 3145707 [PubMed - indexed for MEDLINE]

☐ **8:** [Erfle JD, Teather RM, Wood PJ, Irvin JE.](#)

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Purification and properties of a 1,3-1,4-beta-D-glucanase (lichenase, 1,3-1,4-beta-D-glucan 4-glucanohydrolase, EC 3.2.1.73) from Bacteroides succinogenes cloned in Escherichia coli.
Biochem J. 1988 Nov 1;255(3):833-41.
PMID: 3063255 [PubMed - indexed for MEDLINE]

☐ **9:** [Gaudet G.](#)

[Related Articles](#)

[Extracellular cellulases of "Bacteroides succinogenes"]
Ann Microbiol (Paris). 1983 Jan-Feb;134A(1):111-4. French.
PMID: 6847032 [PubMed - indexed for MEDLINE]

☐ **10:** [Forsberg CW, Groleau D.](#)

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Stability of the endo-beta-1,4-glucanase and beta-1,4-glucosidase from Bacteroides succinogenes.
Can J Microbiol. 1982 Jan;28(1):144-8.
PMID: 6802473 [PubMed - indexed for MEDLINE]

☐ **11:** [Groleau D, Forsberg CW.](#)

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Cellulolytic activity of the rumen bacterium Bacteroides succinogenes.
Can J Microbiol. 1981 May;27(5):517-30.
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